

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

**Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control**

Substitute for form 1449B/PTO

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

**Date Submitted: August 1, 2005**

(use as many sheets as necessary)

Sheet

1

of

2

**Complete if Known**

<b>Application Number</b>	10/659,153
<b>Filing Date</b>	09/10/2003
<b>First Named Inventor</b>	David G. Grier
<b>Group Art Unit</b>	2621
<b>Examiner Name</b>	
<b>Attorney Docket Number</b>	040563-0167

## U.S. PATENT DOCUMENTS

[illegible]

## FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner  
Signature**

ZIA R. HASMI

Date Considered

9/13/05

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

**Burden Hour Statement:** This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

Best Available Copy

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  Date Submitted: August 1, 2005 (use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/659,153
				Filing Date	09/10/2003
				First Named Inventor	David G. Grier
				Group Art Unit	2621
				Examiner Name	
Sheet	2	of	2	Attorney Docket Number	040563-0167

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>6</sup>
W		Kreminskaya, L. V. et al., "The Gaussian Lenses Give Birth to Optical Vortices in Laser Beams", Optics Communications, Elsevier, Netherlands, Vol. 145, No. 1-6, January 1, 1988, Pages 377-384.	
		Heckenberg, N. R. et al., "Trapping Microscopic Particles with the Singular Beams", Proceedings of the SPIE - The International Society for Optical Engineering, vol. 3487, 1998, pages 46-53.	
		Khizhnyak, A. I. et al., "Optical Singularity's Are Induced in Gaussian Laser Beams by Kerr-like Medium: Geometrical Optics Study", Proceedings of the SPIE - The International Society for Optical Engineering, vol. 3486, 1998, pages 63-67.	
		Rodrigo, Peter John et al., "Shack-Hartmann Multiple-Beam Optical Tweezers", Optics Express, Vol. 11, No. 3	

Examiner Signature	Zia R. Hashmi	Date Considered	9/13/05
--------------------	---------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> See attached Kinds of U.S. Patent Documents. <sup>3</sup> Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup> For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup> Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup> Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Available Copy